

**COMPENSATION OF BRAGG WAVELENGTH SHIFT IN A GRATING
ASSISTED DIRECT COUPLER**

Abstract

A method and apparatus for compensating for a Bragg wavelength shift in
5 a grating assisted direct coupler is disclosed. The direct coupler includes an input
waveguide and an output waveguide. The output waveguide has formed thereon a
Bragg grating. By varying the characteristics of the Bragg grating, such as by
applying a temperature gradient or a strain gradient, the Bragg wavelength shift
can be compensated for. Alternatively, the periodicity of the Bragg grating can be
10 varied.